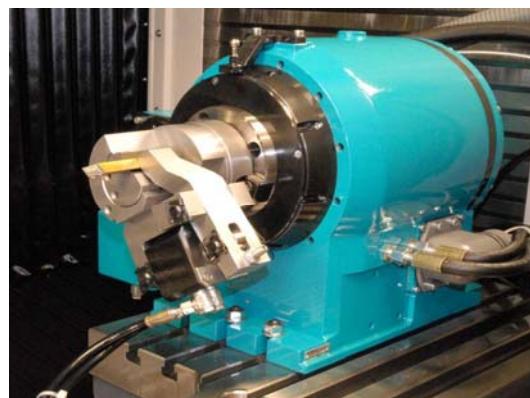


Gear Blade Oerlikon BxH 10.16 x 12.7

A12-350

The profiled Gear Blades are ground with DXF based Profileoperation being clamped horizontally in a specially designed automatic clamping device. The 1A1-wheel is used on both sides to grind either the pressure side of the blade or the clearance side of the blade and the cutting face. When inverting the operation on one of the sides, the complete profile can be preground with one side of the profile, preserving the opposite corner for finishing.



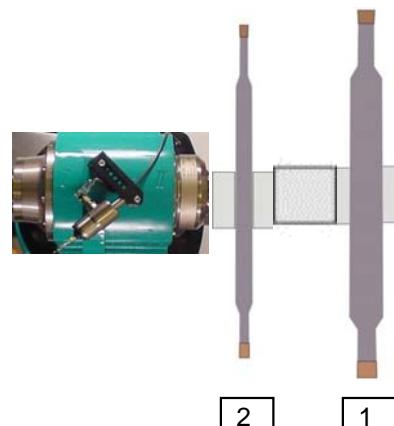
1. Cycletime for Production

Workpiece:	RH inner blade Spir; 10.16 x 12.7 x 115 mm Material CARBIDE						
Operations	Probe	PrsSideRough	CirSideRough	Prs.Side fin.	Clr.Side fin.	TopRakeRough	TopRake
Feed [mm/Min]	2000	15	15	60	60	15	50
Power [kW]		4	3	2	2	2	3
Cutting feed [m/s]		20	20	22	22	20	22
Used wheels		1	1	2	2	2	2
Grinding time [s]	18	539	539	32	32	365	39
Total cycle time	26 Min 3						

The cycle times are indicative. Material to be ground, grinding wheels, coolants can influence the cycle times considerably.

2. Used Grinding Wheels

1	1A1 Ø250 D64
2	14A1 Ø250 D64



3. Machine and Software Requirements

Machines: 5 axes CNC grinders : NORMA CFG

Coolant: Synthetic Oil, pressure 6 bar

Control: Fanuc 31i

Software: Quinto 5

Accessories:

Responsible engineer: OP. 18.11.09

www.schneeberger.ch

J. SCHNEEBERGER Maschinen AG 4914 Roggwil Switzerland

Subsidiaries in: France, Deutschland, Italia, United States, China